

Form PTO-1449 (modified)

Atty. Docket No.

Serial N .

MONS:037US

09/921,992

Office of Patents and Publications for Applicant's

Applicant

Albert Bor nat et al.

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Filing Date:

August 6, 2001

Group:

1638

U.S. Patent Documents

See Page 1

Foreign Patent Documents

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Other Art

See Page 1

U.S. Patent Documents

| Exam. Init. | Ref. Des. | Document Number | Date | Name | Class | Sub Class | Filing Date of App. |
|-------------|-----------|-----------------|------|------|-------|-----------|---------------------|
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Foreign Patent Documents

| Exam. Init. | Ref. Des. | Document Number | Date | Country | Class | Sub Class | Translation Yes/No |
|-------------|-----------|-----------------|----------|---------|-------|-----------|--------------------|
| b | B1 | WO 99 58649 | 11-18-99 | PCT | | | |
| | B2 | WO 00 08169 | 02-17-00 | PCT | | | |
| | B3 | DE 198 35 219 | 02-10-00 | Germany | | | No |
| | B4 | WO 00 17233 | 03-30-00 | PCT | | | No |

Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

| Exam. Init. | Ref. Des. | Citation |
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| b | C11 | Hecht et al., "Studies on the nonmevalonate pathway to terpenes: the role of the GcpE (IspG) protein," <i>Proc. Natl. Acad. Sci. USA</i> , National Academy of Science, Washington, US, 98: 14837-14842, 2001. |
| | C12 | Quero et al., "Functional analysis of the Arabidopsis thaliana GCPE protein involved in plastid isoprenoid biosynthesis," <i>FEBS Letters</i> , Elsevier Science Publishers, 514:343-346, 2002. |
| | C13 | Database accession no. AQ690643; XP002221177; 93% Identity to SEQ ID No. 2, Abstract, July 2, 1999. |
| | C14 | Database accession no. AB005246; XP002220622; 81% Ungapped Identity to SEQ ID No.4, abstract & Sato et al., "Structural analysis of arabidopsis thaliana chromosome 5.I. Sequence features of the 1.6 MB regions covered by twenty physically assigned P1 clones, DNA Research, 4:215-230, 1997. |

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EXAMINER:

DATE CONSIDERED:

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)

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| FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE (Rev. 2.32) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) | ATTY. DOCKET NO. | SERIAL NO. |
| | REN1-00-084-US | 09/921,992 |
| | APPLICANT Boronat et al. | |
| | FILING DATE | GROUP |
| | 6 August 2001 | 1638 |

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUBCLASS | FILING DATE IF APPROPRIATE |
|---------------------|-----|-----------------|------|------|-------|----------|-------------------------------|
| | A01 | | | | | | |
| | A02 | | | | | | |
| | A03 | | | | | | |
| | A04 | | | | | | |
| | A05 | | | | | | |
| | A06 | | | | | | |
| | A07 | | | | | | |
| | A08 | | | | | | |
| | A09 | | | | | | |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | TRANSLATION YES NO |
|---------------------|-----|----------------------------|----------------------|--------------------|-------|----------|------------------------------|
| | B01 | WO 00/17233 | 30-Mar-00 | PCT | | | YES=CA2343919 |
| | B02 | WO 00/08169 | 17-Feb-00 | PCT | | | YES=CA2339519* |
| | B03 | DE 198 35 219 A | 10-Feb-00 | Germany | | | family member CA* |
| | B04 | PCT 99/58649 | 18-Nov-99 | PCT | | | |
| | B05 | | | | | | |

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

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| <i>b</i> | C01 | Sato et al., Database EMBL, Accession No.: AB005246 (18 Jul 97) |
| <i>b</i> | C02 | Wing et al, Database EMBL, Accession No. AQ690643 (XP-002221177) (2 Jul 99) |
| <i>b</i> | C03 | Baker et al., "Sequence and characterization of the gcpE gene of Escherichia coli", Fems Microbiology Letters. 94: 175-180 (1992) |
| <i>b</i> | C04 | Hecht et al., "Studies of the nonmevalonate pathway to terpenes: The role of the GcpE (IspG) protein," PNAS vol 98, no.26 14837-14842, December 18, 2001. |
| <i>b</i> | C05 | Querol et al., "Functional Analysis of the Arabidopsis thaliana GCPE protein involved in plastid isoprenoid biosynthesis," FEBS Letters 514 (2002) 343-346. |

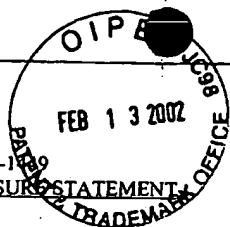
* References were previously cited by the Applicant or by the Examiner and thus copies of these references are not being resubmitted with this statement. Copies of the prior PTO-1449 and -892 forms are enclosed herein. See 37 C.F.R. §1.98(d).

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| Examiner <i>Stu Baum</i> | Date Considered <i>11/6/04</i> |
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(Form PTO-1449 [6-4])

FORM PTO-1539
INFORMATION DISCLOSURE STATEMENT



ATTY. DOCKET NO.

16516.107

APPLICATION NO.

09/921,992

APPLICANTS

Albert BORONAT *et al.*

FILING DATE

August 6, 2001

GROUP

1645

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE |
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| | AB1 | | | | | | |
| | AC1 | | | | | | |
| | AD1 | | | | | | |
| | AE1 | | | | | | |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB- CLASS | TRANSLATION |
|---------------------|-----|--------------------|------|---------|-------|---------------|-------------|
| | AF1 | | | | | | Yes No |
| | AG1 | | | | | | Yes No |
| | AH1 | | | | | | Yes No |
| | AI1 | | | | | | Yes No |
| | AJ1 | | | | | | Yes No |

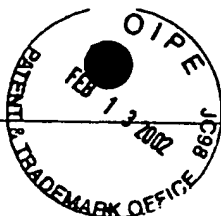
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| | AK | 1 | Baker <i>et al.</i>, "Sequence and characterization of the gcpE gene of Escherichia coli", <i>FEMS Microbiol. Lett.</i> 94:175-180 (1992) | | | | |
| | AL | 1 | Bevan, "Binary Agrobacterium vectors for plant transformation", <i>Nucleic Acids Research</i> 12:8711-8720 (1984) | | | | |
| | AM | 1 | Duvold <i>et al.</i> , "Incorporation of 2-C-Methyl-D-erythritol, a Putative Isoprenoid Precursor in the Mevalonate-Independent Pathway, into Ubiquinone and Menaquinone of Escherichia coli", <i>Tetrahedron Letters</i> 38:6181-6184 (1997) | | | | |
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| | AO | 1 | Elliott, "A Method for Constructing Single-Copy lac Fusions in Salmonella typhimurium and Its Application to the hemA-prfA Operon" <i>J. Bacteriol.</i> 174:245-253 (1992) | | | | |

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ATTY. DOCKET NO.

APPLICATION NO.

APPLICANTS

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GROUP

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | NAME | CLASS | SUB- CLASS | FILING DATE |
|---------------------|--------------------|------|------|-------|---------------|-------------|
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| | AB2 | | | | | |
| | AC2 | | | | | |
| | AD2 | | | | | |
| | AE2 | | | | | |

FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUB- CLASS | TRANSLATION |
|---------------------|--------------------|------|---------|-------|---------------|-------------|
| | AF2 | | | | | Yes No |
| | AG2 | | | | | Yes No |
| | AH2 | | | | | Yes No |
| | AI2 | | | | | Yes No |
| | AJ2 | | | | | Yes No |

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| | AL | 2 | Rather <i>et al.</i> , "aarC, an Essential Gene Involved in Density-Dependent Regulation of the 2'-N-Acetyltransferase in <i>Providencia stuartii</i> ," <i>J. Bacteriol.</i> 179:2267-2273 (1997) |
| | AM | 2 | Rohmer <i>et al.</i> , "Isoprenoid biosynthesis in bacteria: a novel pathway for the early steps leading to isopentenyl diphosphate," <i>Biochem. J.</i> 295:517-524 (1993) |
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| | AP | 2 | Simons <i>et al.</i> , "Improved single and multicopy lac-based cloning vectors for protein and operon fusions," <i>Gene</i> 53:85-96 (1987) |

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